RUSCOOL
ELECTRONICS LIMITED

Encoders and Outputs

Version 1.0

User Manual

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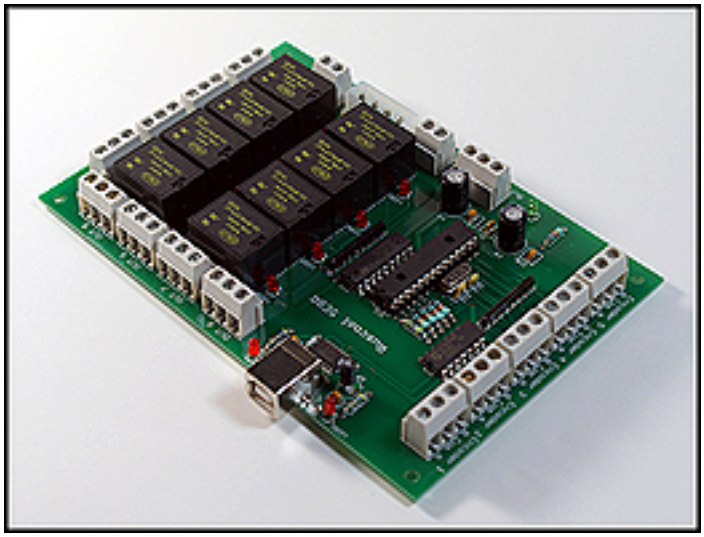

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Prerequisites

- A registered version of FSUIPC must be installed within the Flight Simulator software.
- The FTDI driver must be installed to ensure the program can communicate with the hardware. The FTDI driver files can be found in the application directory.
- Ensure the board is connected to a power supply as well as the computer via a USB cable and, of course, turned on.

Encoders and Outputs Program

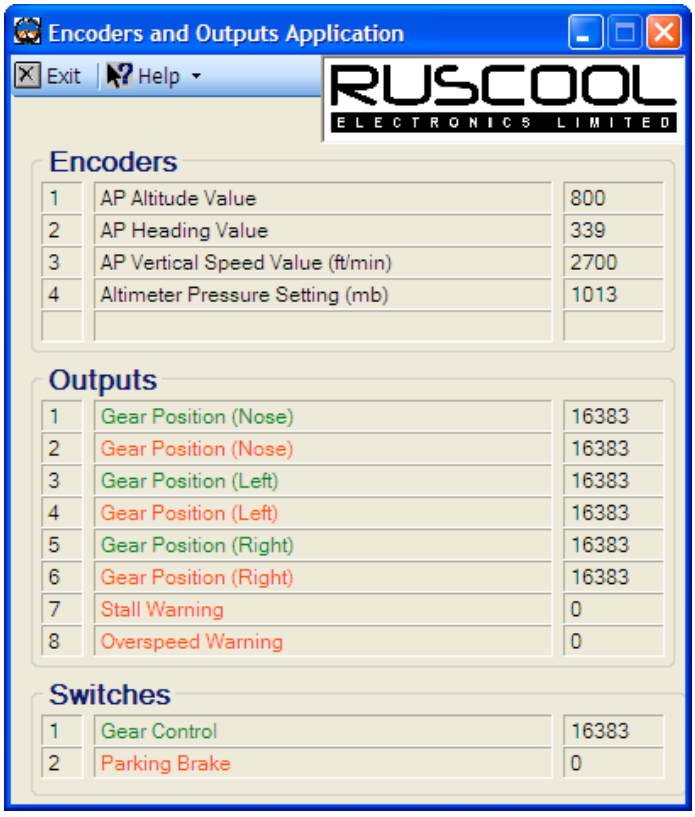
After running the **Encoders and Outputs Config** program and setting up how you wish to use the various controls, and of course saving your settings, the main **Encoders and Outputs** program is ready to use.

The **Encoders and Outputs** program can be running before starting Flight Simulator as it will wait for a connection to the Flight Simulator software before the program continues.

The **Encoders and Outputs** program starts minimised on the taskbar, because while you are flying your simulator it is not normally necessary to see this information. You can, of course, bring it back to full size while you are setting up all of the various controls. Because it is sometimes difficult to know just what values MS Flight Simulator and FSUIPC are producing for any given condition for each item, we have displayed the numerical or logical data alongside the name of each configured item.

Make sure that when you have finished viewing the data that the program is **minimised** again, not closed, so that the program remains running.

When the program is started, any default encoder values are automatically sent to MS Flight Simulator. The screen below shows the status of the outputs/switches and the values received from MS Flight Simulator. The colour of the "Outputs" text is green when ON and red when OFF.



Installing the FTDI Driver

(Only required the first time the hardware is used on this PC)

Once the **Encoders and Outputs** software has been installed, plug a USB cable between the **Encoders and Outputs PCB** and the computer, then power up the board.

The Found New Hardware Wizard will automatically start.

- Connect to Windows Update . . . , select ‘No, not this time’, then click Next
- Select ‘Install from list or specific location’, then click Next
- Click on the Browse button. Select the install application directory, FTDI drivers and click Finish

A second Found New Hardware Wizard will then start.

- Connect to Windows Update . . . , select ‘No, not this time’, then click Next
- Select ‘Install from list or specific location’, then click Next
- Accept the default location and click Finish

You should then see a message stating "Your new hardware is setup and ready to use"

The **Encoders and Outputs** program can now be run. You then need to power down the **Encoders and Outputs PCB** for about ten seconds before turning the power back on and restarting the **Encoders and Outputs** program.